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		19 February 1968
		Copy No. 9
EXIRABILY FOR	: Mrector, Sational Photogra	paic Interpretation Center 25
WWX7:	Request for Approval of	Photographic and Line-Res25
	Imagery Experimentation"	Contract with
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onvergence and The Measurement Salysis of Mis has also re requirements or 3. The sh lectronic site	several technical reports in a lobliquity Angles on the Judget of Photographic langue by He wile Sites as a Function of Photographic langue by He sponded periodically under this ich as those generated from the low missile study is currently the correctly these analyses were required.	cluding The Effects of Stereo ed Worth of Asriel Protographs, and The man Operators, and The hotographic Ground Resolution. is contract to special clearance of "D" Program and Project

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- 3. The above missile study is currently being extended to include electronic sites. These analyses were required in order to determine a resolution "break point", i.e., that image quality level which if exceeded, yields no further intelligence information from a photograph of a particular target. This result is then used by reconnaissance systems designers to designate a point of diminishing returns. Since the cost of obtaining increased resolution from an optical system expands geometrically, the determination of critical breakpoints helps avoid expansive over-design of photographic collection systems. This data is one essential portion of the feedback required between the user (EPIC) and the collectors.
- 4. It is proposed that two sub-tanks be accomplished under the requested funding:
 - a. An extension of the previous photographic resolution studies to include ground, air, and neval order of battle, the next highest priority targets.
 - b. A line-scan imagery study: This sub-task will extend an Office of Special Projects study and will help us determine the impact of roal-time imagery upon EFIC. Because this imagery will be of

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or one, with the line of in its in the line of the lin	s progress has a SERAND, and when been found on or	ith other appr . So conflict ur "Imagery In ategrated appr or 8 years been onnaissance ac	opriate Gove exists betw terpretation each to the	rement agera son this was Research Proversil RPIC	k and that ogram'. exploitatio	25 Pa
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R & D CA	7 February 1968					
1. PROJECT TITLE/CODE NAME	2. SHORT PROJECT DESCRIPTION					
Photographic & Line Scan Imagery Experimentation	Psychophysical experiments photo interpreters.	ation with NPIC and DDI/IAS				
3. CONTRACTOR NAME	ITRACTOR NAME . 4. LOCATION OF CONTE					
5. CLASS OF CONTRACTOR	6. TYPE OF CONTRACT					
Research Organization	CPFF					
7. FUNDS	8. REQUISITION NO.	9. BUDGET PROJECT NO.				
FY 1967 \$,	NP-F-2-03028				
FY 1968 \$	10. EFFECTIVE CONTRACT DATE (Begin - end)	A.A Confidential				
FY 19 69 \$	May 1968 - April 1969	T Unclassified W Top Secret				
12. RESPONSIBLE DIRECTORATE/OFFICE/PR	OJECT OFFICER TELEPHONE EXTENSION					
DDI/NPIC/TSSG/						
13. REQUIREMENT/AUTHORITY						
The human element in in unexplored variable.	imagery interpretation is a vi	ital, yet relatively				
14. TYPE OF WORK TO BE DONE	, A Company of the Co					
Applied Research		•				
15. CATEGORIES OF EFFORT						
MAJOR CATEGORY	SUB-C	ATEGORIES				
	Imagery Interpretation	1				
16 END ITEM OR SERVICES EROM THIS CO	NTRACT/IMPROVEMENT OVER CURRENT SYSTEM	FOULPMENT FTC.				
į	16. END ITEM OR SERVICES FROM THIS CONTRACT/IMPROVEMENT OVER CURRENT SYSTEM. EQUIPMENT. ETC. Monthly reports, and final report.					
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17. SUPPORTING OR RELATED CONTRACTS (Agency & Other)/COORDINATION is currently under TSSG contract to investigate PI performance and tech-						
niques. The work is being done jointly with						
Thorough coordination of thi	s program has been accompils	ied with DDS&T/OSP and OSI.				
10 DECCRIPTION OF INTELLIGENCE RECUL	DEMENT AND DETAILED TECHNICAL DESCRIPT	ION OF PROJECT (Continue on addi-				
18. DESCRIPTION OF INTELLIGENCE REQUIREMENT AND DETAILED TECHNICAL DESCRIPTION OF PROJECT (Continue on additional page if required) The optimization of imagery interpretation functions at						
NPIC is the key to adapting the Center to the ever-increasing workload being levied						
upon it. By experimenting in controlled, but near-operational conditions, psycho-						
physical analysis of human factors problems can be accomplished most accurately.						
	the investigating of resolution					
photographic interpretation of several specific target categoties as well as a first study of line scan imagery exploitation human factors.						
11100 South Of Time Scan Imagery exproroacton numer factors.						
19. APPROVED BY AND DATE						
OFFICE DEPUTY DI	RECTOR	•				
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